

providing a device for energy saving to achieve the calculated reduction in power consumption to a user.

42. (New) A method for reducing power consumption and promoting energy saving in fluid machinery by incorporating a device for energy saving into the fluid machinery, the method comprising:

identifying characteristics of the fluid machinery represented by flow rate-head characteristics of the fluid machinery to be diagnosed;

refining the identified characteristics of the fluid machinery by inputting a power consumption at the actual operating point;

calculating a reduction in power consumption achieved when reducing a rotational speed of the fluid machinery, based on the refined characteristics of the fluid machinery; and

providing a device for energy saving to achieve the calculated reduction in power consumption to a user.

REMARKS

Favorable consideration of this application, as presently amended, is respectfully requested.

The present Second Preliminary Amendment is submitted to correct for minor informalities and to place the above-identified application in better condition for a first examination on the merits.

First, by the Second Preliminary Amendment the specification has been amended to correct for an informality at page 55. Claim 23 has also been amended to correct for an informality and to be fully consistent.

Further, new Claims 35-42 are presented for examination. New Claims 35-42 are deemed to be self-evident from the original disclosure, and thus are not deemed to raise any issues of new matter.

The present application is believed to be in condition for a full and thorough examination on the merits. An early and favorable consideration of the present application is hereby respectfully requested.

Respectfully submitted,

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IN THE SPECIFICATION

Please amend the specification as follows:

Page 55, replace the text beginning at line 8 with the following paragraph:

--The calculating means establishes a rotational speed ratio for these points. If the rotational speed ratio is 0.95, for example, then q_1 is shifted to $q_1 \times 0.95$ and h_1 is shifted to $h_1 \times 0.95^2$. This generates the points $(0.95q_1, 0.95^2h_1)$, $(0.95q_2, 0.95^2h_2)$, The curve α_7 is the line connecting these points. This process is repeated for rotational speed ratios of [0.8] 0.90, 0.85, 0.80, ... to form curves α_6 - α_1 .--

IN THE CLAIMS

Please amend Claim 23 as follows:

--23. (Amended) A method for displaying the characteristics of fluid machinery as claimed in claim 22, further comprising numerically displaying data related to the power consumption adjacent to each curve representing [the fluid pressure] the flow rate-pressure characteristics.

Claims 35-42 (New).--